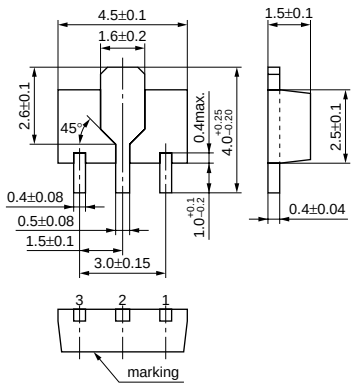
查询2SD2457供应商

2SD2457

Silicon NPN epitaxial planer type

For low-frequency power amplification

Unit: mm



1:Base
2:Collector
3:Emitter

EIAJ:SC–62
Mini Power Type Package

Marking symbol : 1Y

Features

- High collector to emitter voltage V_{CEO}.
- Large collector power dissipation P_C.
- Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25˚C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	50	V
Collector to emitter voltage	V_{CEO}	40	V
Emitter to base voltage	V_{EBO}	5	V
Peak collector current	I_{CP}	3	A
Collector current	I_C	1.5	A
Collector power dissipation	P_C *	1	W
Junction temperature	T_j	150	˚C
Storage temperature	T_{stg}	–55 ~ +150	˚C

* Printed circuit board: Copper foil area of 1cm^2 or more, and the board thickness of 1.7mm for the collector portion

Electrical Characteristics (Ta=25˚C)

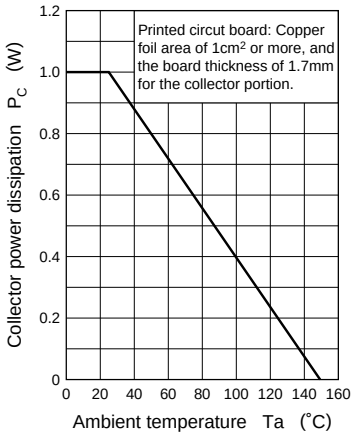
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	V_{CB} = 20V, I_E = 0			1	µA
	I_{CEO}	V_{CE} = 10V, I_B = 0			100	µA
Emitter cutoff current	I_{EBO}	V_{EB} = 5V, I_E = 0			10	µA
Collector to base voltage	V_{CBO}	I_C = 1mA, I_E = 0	50			V
Collector to emitter voltage	V_{CEO}	I_C = 2mA, I_B = 0	40			V
Forward current transfer ratio	h_{FE} *1	V_{CE} = 5V, I_C = 1A*2	80	120	220	
Collector to emitter saturation voltage	$V_{CE(sat)}$	I_C = 1.5A, I_B = 0.15A*2			1	V
Base to emitter saturation voltage	$V_{BE(sat)}$	I_C = 2A, I_B = 0.2A*2			1.5	V
Transition frequency	f_T	V_{CB} = 5V, I_E = –0.5A*2, f = 200MHz		150		MHz
Collector output capacitance	C_{ob}	V_{CB} = 20V, I_E = 0, f = 1MHz		45		pF

*2 Pulse measurement

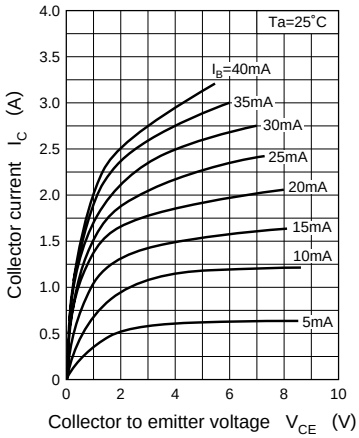
*1h_{FE} Rank classification

Rank	Q	R
h_{FE}	80 ~ 160	120 ~ 220

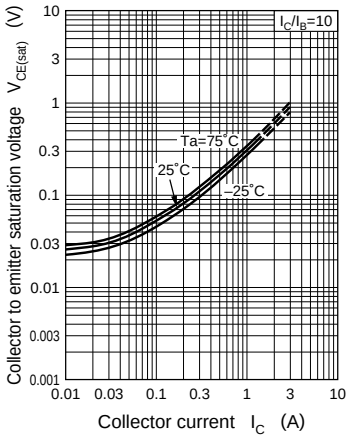
P_C — Ta


Printed circut board: Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion.
Collector power dissipation P_C (W)
Ambient temperature Ta (˚C)

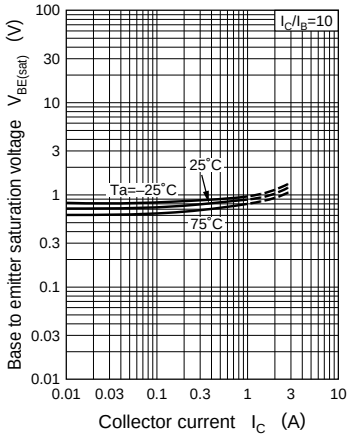
I_C — V_{CE}



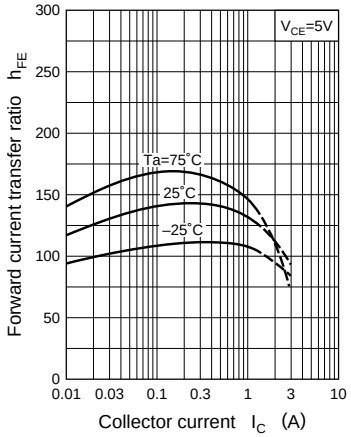
$V_{CE(sat)}$ — I_C



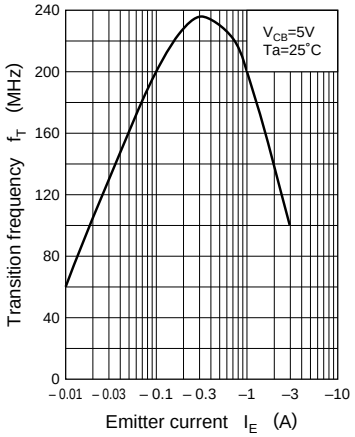
$V_{BE(sat)}$ — I_C



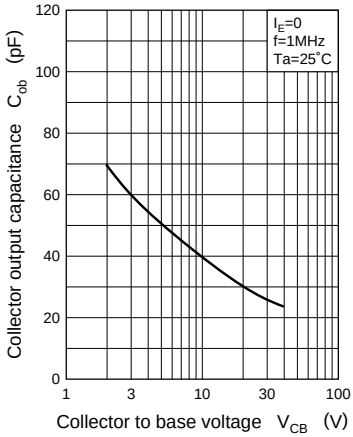
h_{FE} — I_C



f_T — I_E



C_{ob} — V_{CB}



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